FIG. 1

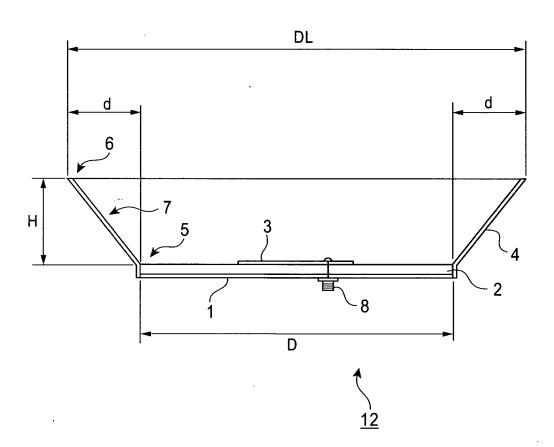


FIG. 2

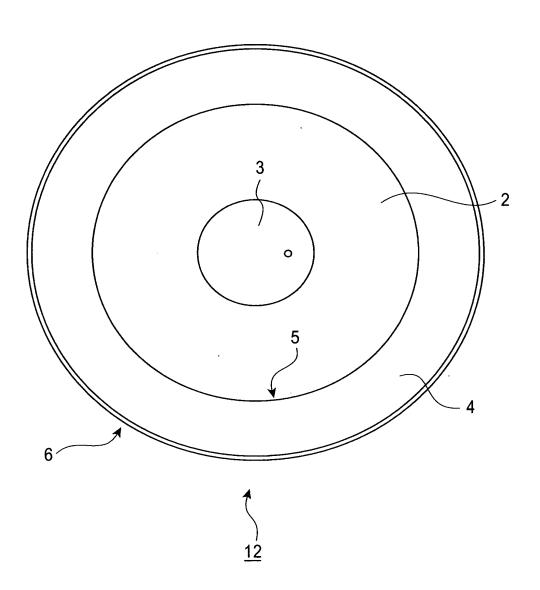


FIG. 3

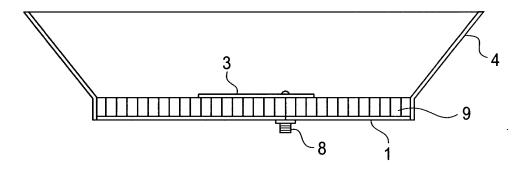
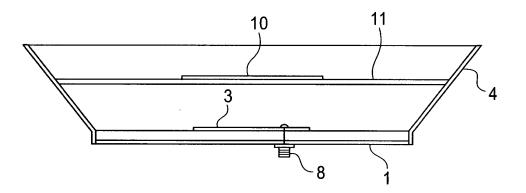


FIG. 4





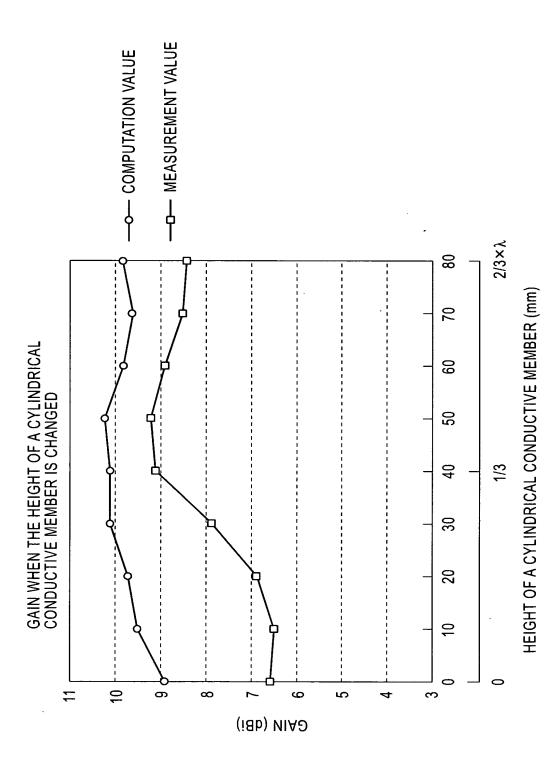


FIG. 6

GAIN (dBi) WHEN THE DIAMETER (D) OF A SUBSTRATE AND THE SPREAD DIAMETER (d) OF A CONDUCTIVE MEMBER ARE CHANGED

						10.9 11.3 11.9 12.2 12.4 12.7 12.2 11.9 11.4   11.5 11.8 12.3 12.4 12.2 11.7 11.3 10.9 10.7   12.1 12.2 11.8 11.0 10.6 10.0 10.1 10.1 10.1   10.5 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4			
DIAMETER (d) OT A CONDOCTIVE MEMBER ARE CHANGED	50	11.7	11.7	11.9	11.7	11.2	10.6	9.8	9.1
	45	11.8	12.1	12.1	12.1	11.4	10.7	10.1	9.2
	40	11.7	12.0	12.2	12.2	11.9	10.9	10.2	9.4
	35	11.1 11.4	11.7	12.2	12.5	12.2	11.3	10.1	9.8
	30	11.1	11.5 11.7	11.9 12.2	12.3	12.7	11.7	10.0	9.4
	25	10.7	11.2	11.4	12.1	12.4	12.2	10.6	9.4
	20	10.1	10.5	11.2	11.7	12.2	12.4	11.0	9.5
	15	9.8	10.1	10.5   11.2	11.1	11.9	12.3	11.8	8.9
	10	9.0	9.4	10.01	10.5	11.3	11.8	12.2	9.4
	5	8.6	9.2	9.5	10.2	10.9	11.5	12.1	10.5
(a)	0	7.7	8.5	9.2	9.7	10.3	10.9	11.6	10.9
טואוניו הר	D(mm) d(mm)	80mm	90mm	100mm	110mm	120mm	130mm	140mm	150mm

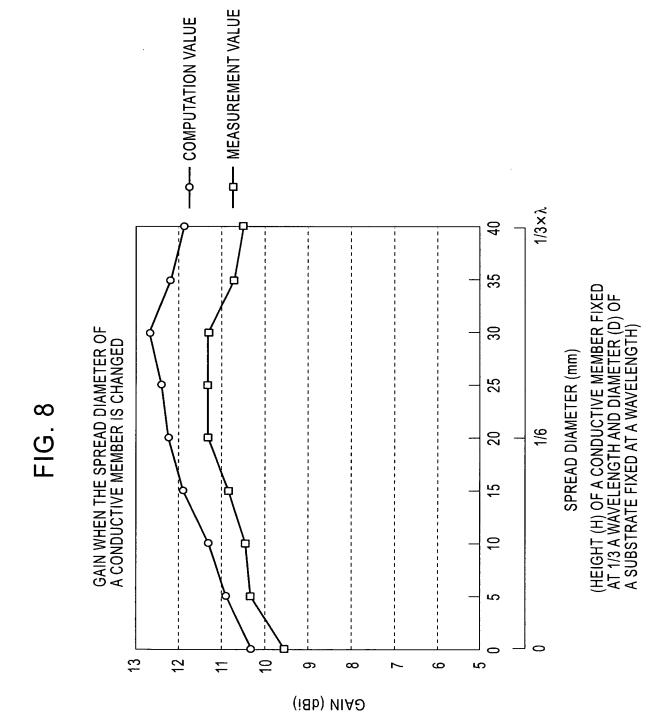
(HEIGHT (H) OF A CONDUCTIVE MEMBER FIXED AT 1/3 A WAVELENGTH)

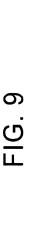
\ . <u>5</u>

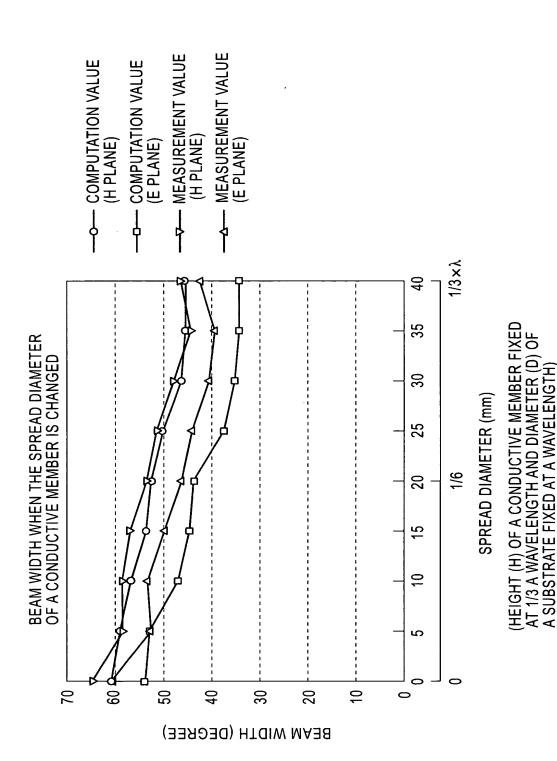
BEAM WIDTH (DEGREE) WHEN THE DIAMETER (D) OF A SUBSTRATE AND THE SPREAD DIAMETER (d) OF A CONDUCTIVE MEMBER ARE CHANGED

	20	52	44	51	40	46	38	43	38	41	43	40	28	42	88	45	6
CHANGED	45	53	43	20	40	48	38	44	35	45	37	43	53	42	72	43	97
	40	54	46	53	43	51	39	46	37	45	34	41	39	42	29	43	6
בו און	32	99	48	54	47	51	42	48	28	45	34	45	34	43	25	42	82
THE STREAD DIAIMETEN (U) OF A CONDUCTIVE INCINDER AND CHANGED	30	28	13	22	49	54	44	51	40	46	38	45	32	46	<b>4</b> 4	43	103
	25	63	23	25	51	25	49	52	42	20	37	45	33	42	32	<b>4</b> 4	26
	20	92	25	63	54	25	12	99	45	25	43	48	32	46	33	43	64
	15	<b>2</b> 9	09	<u>9</u>	28	62	22	28	51	23	44	25	04	47	33	46	40
	10	99	84	23	64	64	69	19	54	29	47	24	44	48	36	46	30
	5	73	65	69	62	68	61	62	57	59	53	56	47	49	39	46	30
	0	75	73	69	68	65	62	64	58	61	54	58	48	51	42	49	36
וור	d(mm)	H PLANE	E PLANE	H PLANE	E PLANE	H PLANE	E PLANE	H PLANE	E PLANE	H PLANE	E PLANE	H PLANE	E PLANE	H PLANE	E PLANE	H PLANE	E PLANE
	D(mm)				90111111	40000	100111111	440,000		120mm		130mm		140mm		150mm	

(HEIGHT (H) OF A CONDUCTIVE MEMBER FIXED AT 1/3 A WAVELENGTH)







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